

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: 40452-30 Aldi Store #87 Charlotte, NC
Project Type: Alteration

Construction Site: 2526 Freedom Drive, Charlotte, North Carolina 28208
Owner/Agent: ALDI, Inc., 1985 Old Union Church Road, Salisbury, North Carolina 28146, 330-273-7351
Designer/Contractor: ms consultants, inc., 2221 Schrock Road, Columbus, Ohio 43229, 614-898-7100

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Retail-Sales Area	11019	1.59	17520
2-Common Space Types: Office - Enclosed	598	1.11	664
3-Warehouse-Medium/Bulky/Pallet Material Storage	2304	0.58	1336
Total Allowed Watts =			19520

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt. (C X D)	E (C X D)
Retail-Sales Area (11019 sq.ft.)				
B4-B4: Other:	1	4	54	216
B6-B6: Other:	1	18	72	1296
B8-B8: Other:	1	60	95	5700
D4-D4: Other:	1	2	54	108
D8-D8: Other:	1	24	95	2280
L2-L2: Other:	1	1	44	44
L4-L4: Other:	1	4	44	176
S1D-S1D: Other:	1	19	26	532
S2D-S2D: Other:	1	2	45	90
W4-W4: Other:	1	4	34	136
W6-W6: Other:	1	1	72	72
W6X-W6X: Other:	1	14	54	756
Common Space Types: Office - Enclosed (598 sq.ft.)				
L4-L4: Other:	1	8	44	352
Warehouse: Medium/Bulky/Pallet Material Storage (2304 sq.ft.)				
L1-L1: Other:	1	9	88	792
L4-L4: Other:	1	7	44	88
L7-L7: Other:	1	1	23	23
Total Proposed Watts =			12661	

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Interior Lighting Passes

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jason E. Christoff - PE Name - Title Signature Date 01/18/21

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Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: 40452-30 Aldi Store #87 Charlotte, NC
Project Type: Alteration
Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site: 2526 Freedom Drive, Charlotte, North Carolina 28208
Owner/Agent: ALDI, Inc., 1985 Old Union Church Road, Salisbury, North Carolina 28146, 330-273-7351
Designer/Contractor: ms consultants, inc., 2221 Schrock Road, Columbus, Ohio 43229, 614-898-7100

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Entry canopy	860 ft ²	0.25	Yes	215
Main entry	8 ft of door	20	Yes	160
Other door (not main entry)	6 ft of door	20	Yes	120
Total Tradable Watts (a) =				495
Total Allowed Watts =				495
Total Allowed Supplemental Watts (b) =				600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt. (C X D)	E (C X D)
Entry canopy (860 ft²): Tradable Wattage				
LED: L2: Other:	1	4	43	172
Main entry (8 ft of door width): Tradable Wattage				
LED: L2: Other:	1	2	43	86
Other door (not main entry) (6 ft of door width): Tradable Wattage				
LED: L2: Other:	1	2	33	66
Total Tradable Proposed Watts =				324

Exterior Lighting Passes

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jason E. Christoff - PE Name - Title Signature Date 01/18/21

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COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: 40452-30 Aldi Store #87 Charlotte, NC
Location: Charlotte, North Carolina
Climate Zone: 3
Project Type: Alteration

Construction Site: 2526 Freedom Drive, Charlotte, North Carolina 28208
Owner/Agent: ALDI, Inc., 1985 Old Union Church Road, Salisbury, North Carolina 28146, 330-273-7351
Designer/Contractor: ms consultants, inc., 2221 Schrock Road, Columbus, Ohio 43229, 614-898-7100

Mechanical Systems List

- Quantity System Type & Description**
- RTU-1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 405 kBtu/h
Proposed Efficiency = 80.00% E, Required Efficiency: 80.00% E
Cooling: 1 each - Rooftop Package Unit, Capacity = 314 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Open Case Refrigeration
Proposed Efficiency = 11.30 EER, Required Efficiency: 9.80 EER + 11.4 IEER
Fan System: RTU-1 | RTU-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fans:
FAN 1 Supply, Multi-Zone VAV, 8000 CFM, 10.0 motor nameplate hp, 67.0 fan efficiency grade, 90.0 total fan efficiency, 80.0 design fan efficiency
 - RTU-2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 65 kBtu/h
Proposed Efficiency = 80.00% E, Required Efficiency: 80.00% E, or 78% AFUE
Cooling: 1 each - Rooftop Package Unit, Capacity = 24 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 14.00 SEER, Required Efficiency: 14.00 SEER
Fan System: RTU-2 | RTU-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fans:
FAN 2 Supply, Constant Volume, 700 CFM, 0.3 motor nameplate hp, 50.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Single fan <= 3HP
 - Split System (HP-LFCU-1) (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 10 kBtu/h
Proposed Efficiency = 10.50 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 9 kBtu/h
Proposed Efficiency = 20.20 SEER, Required Efficiency: 14.00 SEER
Fan System: FCU-1 | FCU-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fans:
FAN 3 Supply, Constant Volume, 300 CFM, 0.1 motor nameplate hp, 50.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Single fan <= 3HP
 - EWH-1:
Electric Storage Water Heater, Capacity: 20 gallons w/ Circulation Pump
Proposed Efficiency: 1.00 SL, %/h (if > 12 kW), Required Efficiency: 1.65 SL, %/h (if > 12 kW)

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Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jason E. Christoff - PE Name - Title Signature Date 01/18/21

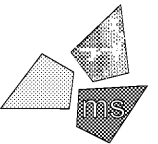
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Issued:	Date:
A Client Review Set	01/21/21
B Permit Set	02/03/21
C Bid Set	02/12/21
D	

Revisions:	Date:
1	
2	
3	
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PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No. 6201061051
EXP. DATE: 10/31/2020



ALDI Inc.
Store No. 87
2526 Freedom Dr
Charlotte, NC 28208
Mecklenburg County
Project Name & Location:

COMcheck
Drawing Name:
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